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FIG. 1

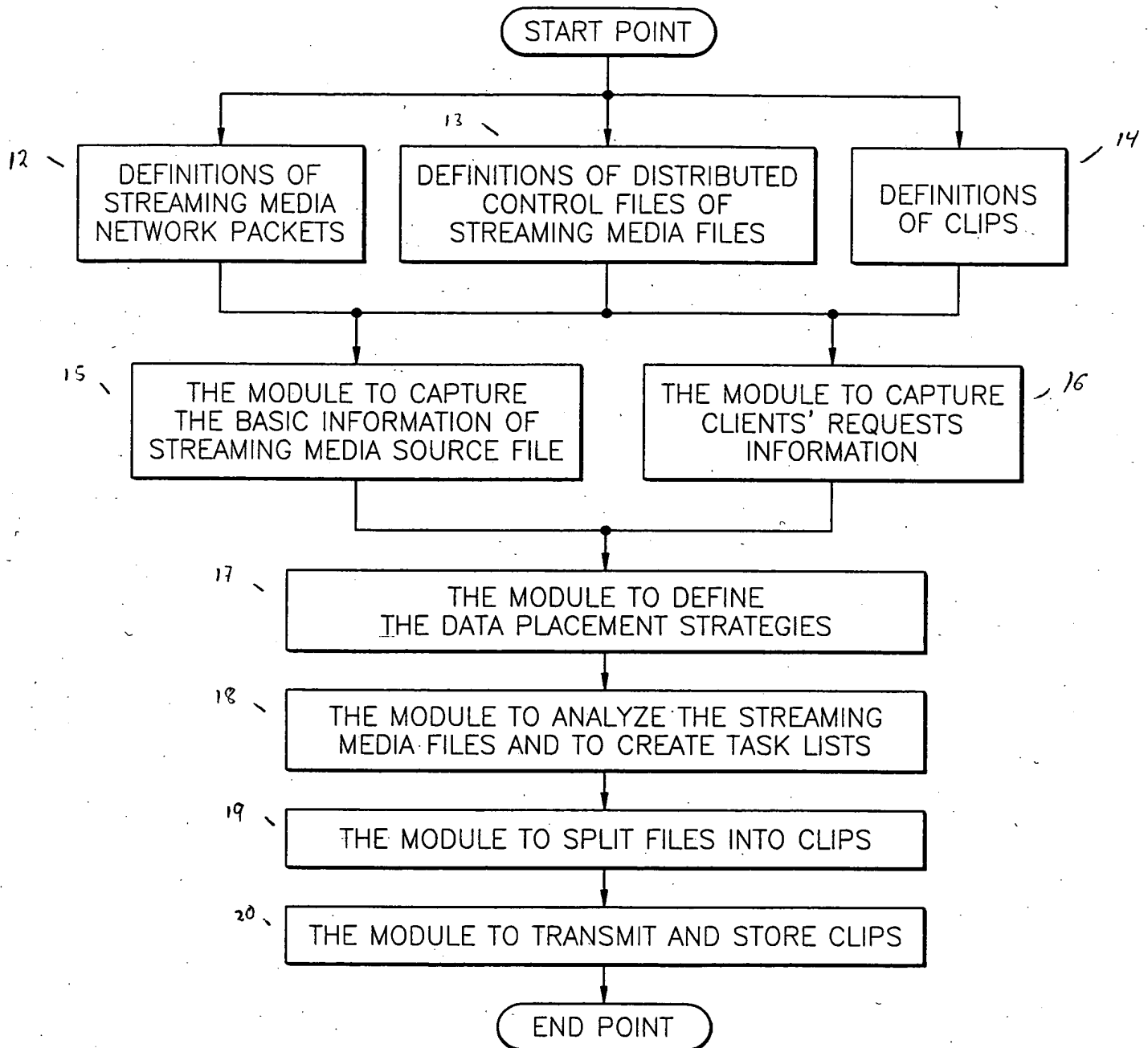


FIG. 2

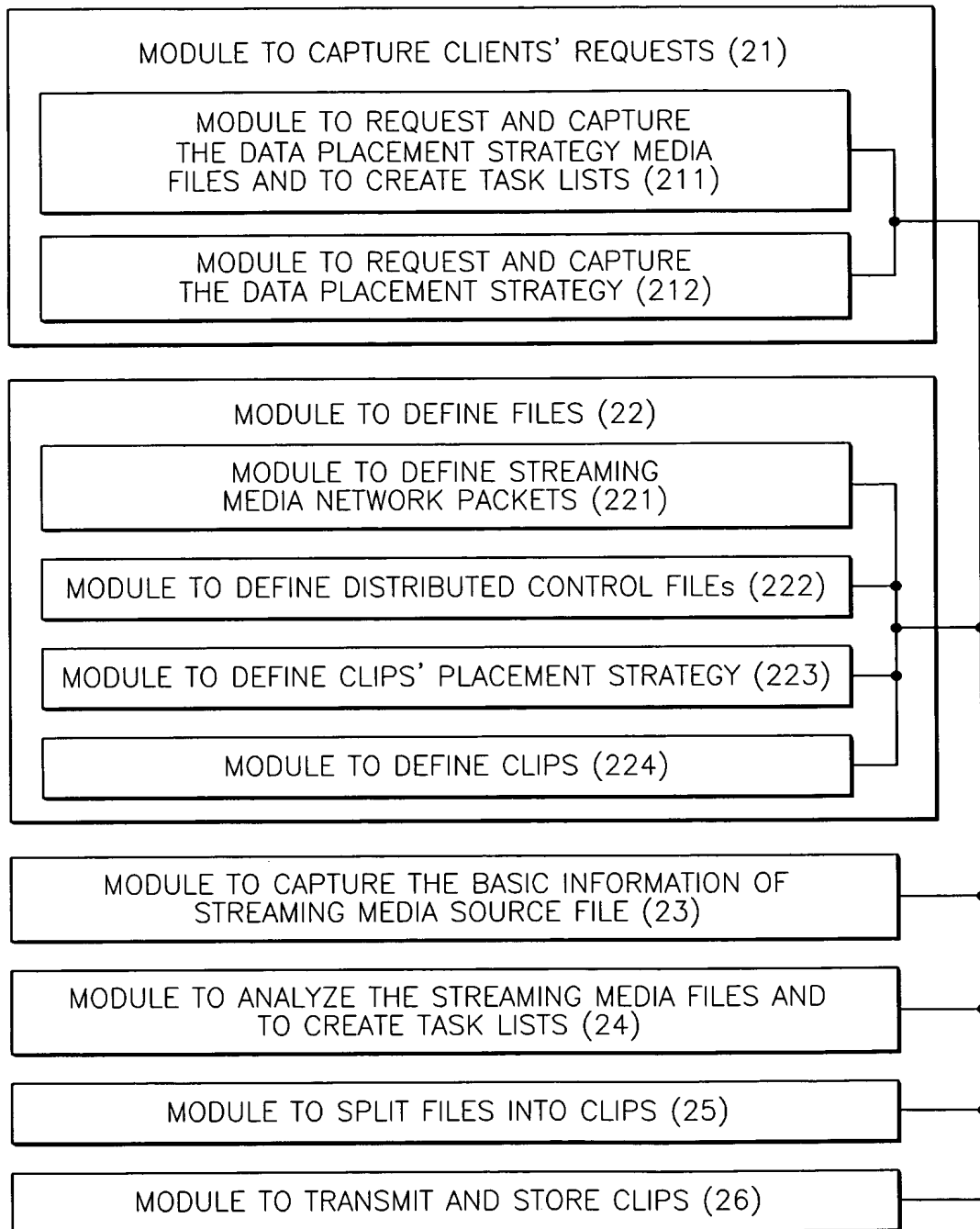


FIG. 3

STREAMING MEDIA NETWORK PACKETS:

MEDIA TYPE HEAD

SEQUENCE NUMBER TIME STAMP SYNCHRONOUS SOURCE PAYLOAD

T	N	t	SSRC	
T	N+1	t	SSRC	
T	N+2	t	SSRC	
T	N+3	t	SSRC	

MEDIA TYPE HEAD: UNSIGNED SHORT INTEGER WITH 16 BITS

SEQUENCE NUMBER: UNSIGNED SHORT INTEGER WITH 16 BITS

TIME STAMP: UNSIGNED INTEGER WITH 32 BITS

SYNCHRONOUS SOURCE: UNSIGNED INTEGER WITH 32 BITS

PAYLOAD: AN ARRAY CONSISTED OF UNSIGNED CHAR WITH 8 BITS

FIG. 4

```
//the clips' information
typedef struct Clip
{
    //the storage addresses set of the clips and replicas
    Unsigned int (32 bits)      fHost IP [ MAX_REPLICA_NUM ] ;

    //the space size of the clip.
    Unsigned int 32 bits        fFileSize;
    //the start playtime counted in seconds;
    Float 64 bits              fStartTime;
    //the end playtime counted in seconds;
    Float 64 bits              fEndTime;
    //the sequence number of the first network packet of the clip;
    Unsigned int 32 bits        fStartPacketIndex;
    //the sequence number of the last network packet of the clip;
    Unsigned int 32 bits        fEndPacketIndex;

} Clip;

//the splitting task lists of one source file
typedef struct ClipTable
{
    //the space size of one media file;
    Unsigned int (32 bits)      fFileSize;
    //the hot option of one film;
    int                        fHot;
    //the name length of the source media file;
    Unsigned char (8 bits)      fNameLen;
    //the number of clips of one source media file;
    Unsigned char (8 bits)      fNumber;
    //the name of the source media file;
    Char                        *fName
    //the structure of each list item;
    Clip                        *fIndex;

} ClipTable;
```

FIG. 5

b=AS:1383
a=range:npt=0- 46.57500
m-OTHER 0 RTP/AVP 96
b=AS:1383
a=rtpmap:96 MP1S/90000
a=control:trackID=2

FIG. 6

Clip File header	
Header messages of one stream in the clip file	
Streaming Media Network Packets	
Header messages of another stream in the clip file	
Streaming Media Network Packets	

FIG. 7

```
typedef struct FileHeader
{
    // Index ID of one clip file
    Unsigned int (16 bits)    fSplit_ID;
    //The version of the current splitting tool
    Unsigned int (32 bits)    fVersion;
    //The time length of the clip
    Float 64 (64 bits)    fMovieDuration
    //The number of the media streams in the clip
    Unsigned int (32 bits)    fNumTracks
    //The average bandwidth of the clip
    Float 64 (64 bits)    fBandWidth;
} File Header
```

FIG. 8

```
typedef struct TrackHeader
{
    //ID of the stream
    Unsigned char (8 bits)    fTrackID;
    //The duration of the stream
    Float (64 bits)    fTrackDuration;
    //The compression ratio of the stream
    Float (64 bits)    fCompressRatio;
    //The start location of the media data of the stream
    Unsigned int (32 bits)    fMediaPosition
} Fileheader
```

FIG. 9

ID OF THE MEDIA STREAM (UNIT 8)	SERIAL NUMBER (UNIT 32)	PLAYTIME (FLOAT 64)	LENGTH OF THE NETWORK PACKET (UNIT 16)	NETWORK PACKET (UNIT 8[])
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UINT8: UNSIGNED CHAR (8 BITS)

UINT16: UNSIGNED INT (16 BITS)

UINT32: UNSIGNED INT (32 BITS)

FLOAT64: FLOAT (64 BITS)

FIG. 10

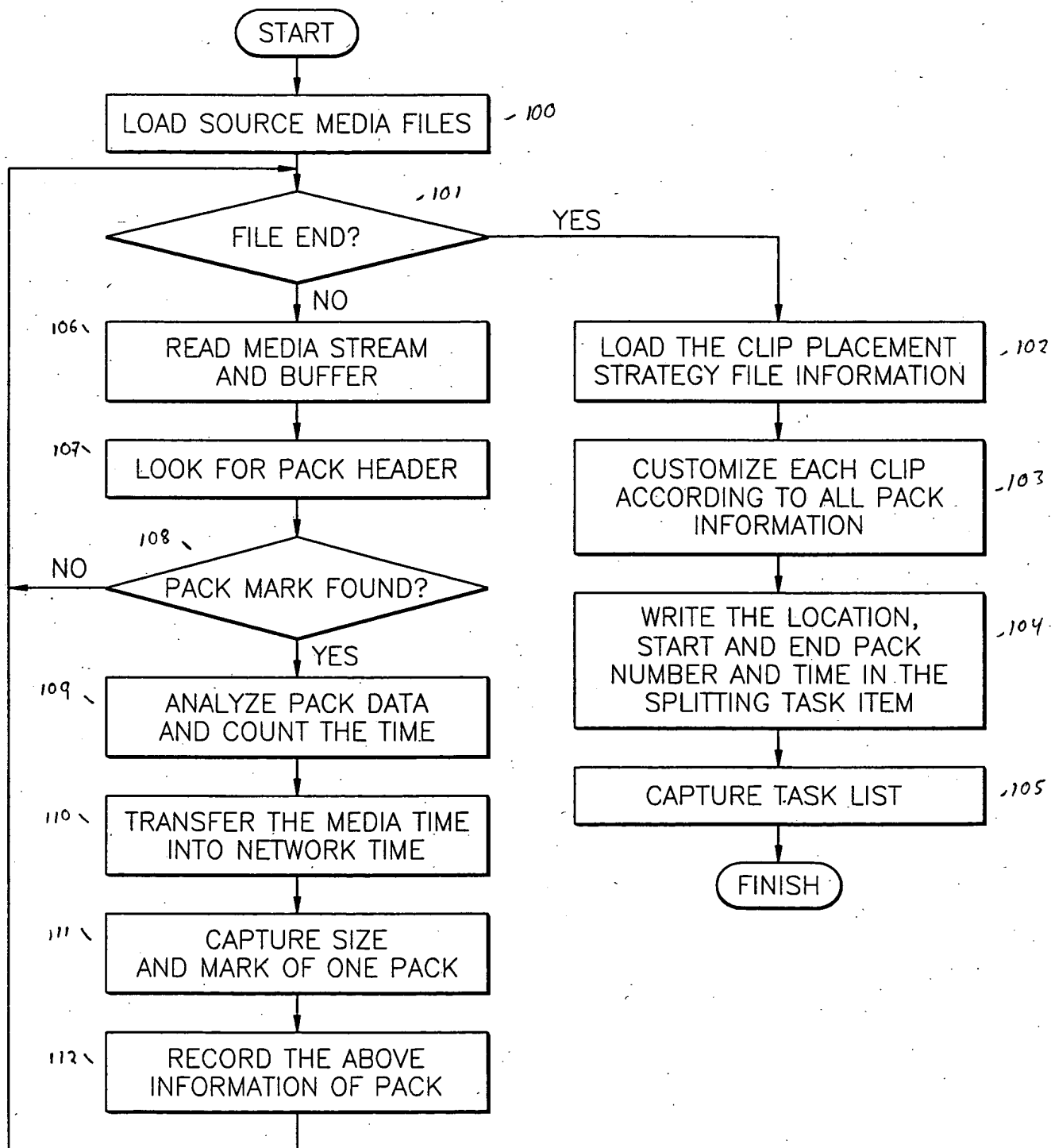


FIG. 11

```
typedef struct Each_Task_Info
{
    //start time of the clip-counted in seconds;
    Float (64 bits)      fStartTime;
    //start Pack sequence number of the clip;
    Unsigned int (32 bits)      fStartPackIndex;
    //Sstart offset of the clip
    Unsigned int (32 bits)      fStartPosition;
    // end offset of the clip
    Unsigned int (32 bits)      fEndPosition;
    // index of the clip
    Unsigned int (32 bits)      fIndex;
    //task finish percentage of the clip;
    Float (64 bits)      fWorkingProcessing;
    //task dispatch start time of the clip
    Time      fSchedule_Start_Time;
    //total time of finishing the task of the clip. Its unit is second;
    Float (64 bits)      fSchedule_Total_Time;
    //whether the task of the clip is successful or not
    Unsigned char (8 bits)      fSucceed;

    } Each_Task_Info;

typedef struct Task_Info
{
    //the number of the items in the list
    Unsigned char (8 bits)      fNumber;
    //the handle of the source media file in the list
    int      fSourceFile
    //all the splitting tasks

    Each_Task_Info *fIndex [ MAX_SPLIT_NUMBER ] ;

    } Task_Info;
```

FIG. 12

